

PRODUCT DATASHEET

ES-ST-24H2068-400-4BL

Hybrid Stepper Motors

Hybrid Stepper Motors | 60 mm Hybrid Stepper Motor Series - ES-ST-HY07

Product Overview

Hybrid Stepper Motors with holding Torque 2.1 Nm, continuous Rated Current 4 A and step Angle 1.8 °.

Key Specifications

PARAMETER	VALUE	UNIT
Holding Torque	2.1	Nm
Continuous Rated Current	4	A
Step Angle	1.8	°
Body Length	68	mm
Weight	1	kg
Temperature Rise	80	°C
Number of Phases	2	
Phase Resistance	0.6 ±10%	Ω
Insulation Class	B	

Technical Specifications

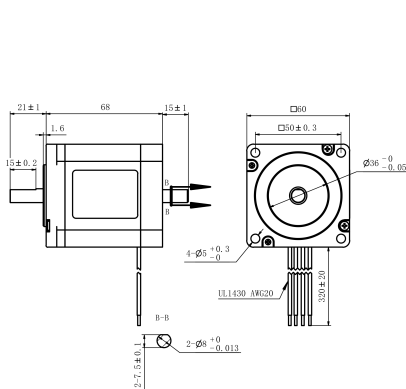
PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Holding Torque	2.1	Nm	
ELECTRICAL			
Continuous Rated Current	4	A	
Step Angle	1.8	°	
Temperature Rise	80	°C	
Number of Phases	2		
Phase Resistance	0.6 ±10%	Ω	Measurement: 20 °C
Phase Inductance	1.9 ±20%	mH	Measurement: 1V, 1kHz
Insulation Class	B		
Insulation Resistance	100 (500 VDC)	MΩ	
MECHANICAL			
Body Length	68	mm	
Weight	1	kg	

Dimensional & Integration Overview

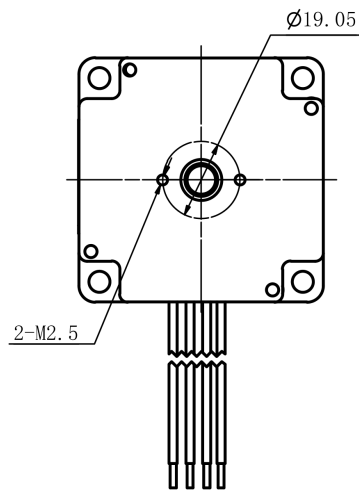
Mechanical Overview

PARAMETER	VALUE	UNIT
Body Length	68	mm
Weight	1	kg

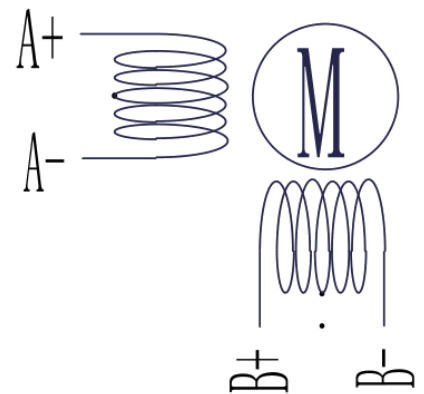
Dimensional Drawings



Mechanical View 1



Mechanical View 2



Mechanical View 3

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Overall depth	89 mm
	Mounting hole spacing	21±1 mm
		15±1 mm
	Shaft end diameter	Ø9 mm
	Motor body width	□50±0.3 mm
	Mounting hole depth	1.6 mm
	Shaft diameter with tolerance	Ø36 0/-0.05 mm
	Mounting face width	15±0.2 mm
	Datum B designation	Datum B
	Mounting hole diameter with tolerance	4-Ø5 +0.3/-0 mm
	Section view designation	Section B-B
	Locating hole diameter with tolerance	2-Ø8 +0/-0.013 mm
	Locating hole position dimension	2-7.5±0.1 mm
Mechanical View 2	Output shaft diameter	Φ19.05
	Mounting hole thread specification	2-M2.5
Mechanical View 3	Motor Symbol Marker	M

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01 Specifications are subject to change without notice. Verify the current product configuration before final design release.

02 2D drawings, CAD files and integration documentation are controlled documents and are supplied separately on request.